```
            Brazil
            Tel: +55-11-2704922
            Fax: +55-11-2707001
            Email: asimpson@ludwig.org.br
            This sequence was derived from the FAPESP/LICR Human Cancer Genome
            Project. This entry can be seen in the following URL
            (http://www.ludwig.org.br/scripts/gethtml2.pl?t1=&t2=CM4-HT0652-150
            400-143-h09&t3=2000-04-15&t4=1)
            Seq primer: puc 18 forward
            High quality sequence stop: 134.
FEATURES              Location/Qualifiers
     source           1. .134
                      /organism="Homo sapiens"
                      /mol_type="mRNA"
                      /db_xref="taxon:9606"
                      /dev_stage="Adult"
                      /clone_lib="HT0652"
                      /note="Organ: head_neck; Vector: puc18; Site_1: SmaI;
                      Site_2: SmaI; A mini-library was made by cloning products
                      derived from  ORESTES PCR (U.S. Letters Patent application
                      No. 196,716 -  Ludwig Institute for Cancer Research)
                      profiles into  the pUC 18 vector. Reverse transcription of
                      tissue mRNA and cDNA amplification were performed under
                      low stringency conditions."
ORIGIN

  Query Match           100.0%;  Score 75;  DB 10;  Length 134;
  Best Local Similarity   100.0%;  Pred. No. 1.7e-30;
  Matches   75;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ATGGCTCCACGAGGGTTCAGCTGTCTCTTACTTTTAACCAGTGAAATTGACCTGCCCGTG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          7 ATGGCTCCACGAGGGTTCAGCTGTCTCTTACTTTTAACCAGTGAAATTGACCTGCCCGTG 66

Qy         61 AAGAGGCGGGCATGA 75
              ||||||||||||||||
Db         67 AAGAGGCGGGCATGA 81


RESULT 3
BM755441
LOCUS       BM755441                150 bp    mRNA    linear   EST 04-MAR-2002
DEFINITION  K-EST0033206 S11SNU1 Homo sapiens cDNA clone S11SNU1-13-B07 5',
            mRNA sequence.
ACCESSION   BM755441
VERSION     BM755441.1  GI:19085059
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 150)
  AUTHORS   Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
            Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
            Kim,Y.S.
  TITLE     21C Frontier Korean EST Project 2001
  JOURNAL   Unpublished (2002)
COMMENT     Contact: Kim YS
            Genome Research Center
            Korea Research Institute of Bioscience & Biotechnology
            52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
            Tel: +82-42-860-4470
            Fax: +82-42-860-4409
            Email: yongsung@mail.kribb.re.kr
            Plate: 13  row: B  column: 07
            High quality sequence stop: 150.
FEATURES              Location/Qualifiers
     source           1. .150
                      /organism="Homo sapiens"
                      /mol_type="mRNA"
                      /db_xref="taxon:9606"
                      /clone="S11SNU1-13-B07"
                      /sex="M"
                      /tissue_type="Stomach"
                      /cell_type="Lymphoblast-like"
                      /cell_line="SNU-1"
                      /lab_host="Top10F'"
                      /clone_lib="S11SNU1"
                      /note="Organ: Stomach; Vector: pME18-FL3; Site_1: XhoI;
                      Site_2: XhoI; The poly (A)+ RNA was dephosphorylated with
                      bacterial alkaline phosphatase (BAP) and then decapped
                      with tabacco acid pyrophosphatase (TAP). The decapped
                      intact mRNA was ligated with DNA-RNA linker including SfiI
                      site by treatment of T4 RNA ligase and the first strand
                      cDNA was synthesized with Superscript II using SfiI
                      oligo-dT primer. After first strand synthesis, RNA was
                      degraded by NaOH treatment and cDNA was amplified by PCR
                      reaction. The PCR products were digested with SfiI and
                      cloned into DraIII- digested pME18S-FL3 vector. The
                      obtained cDNA vectors were used for transformation of
                      competent cells E. coli Top10F' by electroporation method.
                      The cDNA libraries constructed by this method are
                      full-length enriched cDNA library."
ORIGIN

  Query Match           100.0%;  Score 75;  DB 12;  Length 150;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-30;
  Matches   75;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ATGGCTCCACGAGGGTTCAGCTGTCTCTTACTTTTAACCAGTGAAATTGACCTGCCCGTG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          5 ATGGCTCCACGAGGGTTCAGCTGTCTCTTACTTTTAACCAGTGAAATTGACCTGCCCGTG 64

Qy         61 AAGAGGCGGGCATGA 75
              ||||||||||||||||
Db         65 AAGAGGCGGGCATGA 79


RESULT 4
AA579497/c
LOCUS       AA579497                151 bp    mRNA    linear   EST 12-SEP-1997
DEFINITION  nf37e03.s1 NCI_CGAP_Pr2 Homo sapiens cDNA clone IMAGE:915964, mRNA
            sequence.
ACCESSION   AA579497
VERSION     AA579497.1  GI:2357681
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 151)
  AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
  TITLE     National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
            Tumor Gene Index
  JOURNAL   Unpublished (1997)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-r@mail.nih.gov
            Tissue Procurement: W. Marston Linehan, M.D., Rodrigo Chuaqui,
            M.D., Michael Emmert-Buck, M.D., Ph.D.
            cDNA Library Preparation: David B. Krizman, Ph.D.
            cDNA Library Arrayed by: Genome Systems Inc., Greg Lennon, Ph.D.
            DNA Sequencing by: Washington University Genome Sequencing Center
            Clone distribution: NCI-CGAP clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            www-bio.llnl.gov/bbrp/image/image.html
            Insert Length: 581   Std Error: 0.00
            Seq primer: -40m13 fwd. ET from Amersham
            High quality sequence stop: 145.
FEATURES              Location/Qualifiers
     source           1. .151
                      /organism="Homo sapiens"
                      /mol_type="mRNA"
                      /db_xref="taxon:9606"
                      /clone="IMAGE:915964"
                      /sex="Male"
                      /dev_stage="45 years old"
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/lab_host="DH10B"
/clone_lib="NCI_CGAP_Pr2"
/note="Vector: pAMP10; Site_1: Not1; Site_2: EcoRI; 1st strand cDNA was primed with oligo(dT)17 on 50 ng of DNAse-treated, total cellular RNA obtained from 5,000-10,000 microdissected preneoplastic cells histologically-determined to be prostatic intraepithelial neoplasia 2 (PIN2) cells. Double-stranded cDNA was ligated to EcoRI adaptors, 5 cycles of PCR applied to the cDNA with an adaptor-specific primer, and the resulting PCR product subcloned into pAMP10 by the UDG-cloning method (Life Technologies). Average insert size is 600 bp. NOTE: Not directionally cloned. This library was constructed by David Krizman."

ORIGIN

Query Match 100.0%; Score 75; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.8e-30;
Matches 75; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ATGGCTCCACGAGGGTTCAGCTGTCTCTTACTTTTAACCAGTGAAATTGACCTGCCCGTG 60
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Db         96 ATGGCTCCACGAGGGTTCAGCTGTCTCTTACTTTTAACCAGTGAAATTGACCTGCCCGTG 37

Qy         61 AAGAGGCGGGCATGA 75
              |||||||||||||||
Db         36 AAGAGGCGGGCATGA 22
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RESULT 5
BE094504/c
LOCUS BE094504 151 bp mRNA linear EST 12-JUN-2000
DEFINITION CM1-BT0769-080500-216-g05 BT0769 Homo sapiens cDNA, mRNA sequence.
ACCESSION BE094504
VERSION BE094504.1 GI:8484957
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 151)
AUTHORS Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.
TITLE Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
MEDLINE 20202663
PUBMED 10737800
COMMENT Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?t1=&t2=CM1-BT0769-080500-216-g05&t3=2000-05-08&t4=1)
Seq primer: puc 18 forward
High quality sequence stop: 151.

FEATURES Location/Qualifiers
source 1. .151
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="BT0769"
/note="Organ: breast; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

ORIGIN

Query Match 100.0%; Score 75; DB 10; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.8e-30;
Matches 75; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ATGGCTCCACGAGGGTTCAGCTGTCTCTTACTTTTAACCAGTGAAATTGACCTGCCCGTG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        130 ATGGCTCCACGAGGGTTCAGCTGTCTCTTACTTTTAACCAGTGAAATTGACCTGCCCGTG 71

Qy         61 AAGAGGCGGGCATGA 75
              |||||||||||||||
Db         70 AAGAGGCGGGCATGA 56
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RESULT 6
BE164264/c
LOCUS BE164264 156 bp mRNA linear EST 21-JUN-2000
DEFINITION QV2-HT0464-220300-093-e04 HT0464 Homo sapiens cDNA, mRNA sequence.
ACCESSION BE164264
VERSION BE164264.1 GI:8626985
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 156)
AUTHORS Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.
TITLE Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
MEDLINE 20202663
PUBMED 10737800
COMMENT Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?t1=&t2=QV2-HT0464-220300-093-e04&t3=2000-03-22&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 11
High quality sequence stop: 156.

FEATURES Location/Qualifiers
source 1. .156
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="HT0464"
/note="Organ: head_neck; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under